

I claim:

1 1. A method for recording high definition video images
2 in real time comprising the steps of:
3 acquiring a high definition video image in a first data
4 format;
5 compiling the high definition video image in a second data
6 format; and
7 writing the high definition video image as a stripped data
8 file.

1 2. The method of claim 1 wherein acquiring a high
2 definition video image in a first data format comprises:
3 acquiring a high definition video image in a YcbCr format.

1 3. The method of claim 1 wherein compiling the high
2 definition video image in a second data format comprises:
3 compiling the high definition video image in an RGB
4 format.

1 4. The method of claim 1 wherein compiling the high
2 definition video image in a second data format further
3 comprises:
4 compiling the high definition video image in the first
5 data format;
6 translating the high definition video image in the first
7 data format to a high definition video image in the second data
8 format;
9 filtering the high definition video image to eliminate
10 translation artifacts;
11 correcting the high definition video image; and
12 packing the high definition video image in a second data
13 format packing mode.

1 5. The method of claim 4 wherein compiling the high
2 definition video image in a first data format comprises:
3 compiling the high definition video image in a YcbCr
4 format.

1 6. The method of claim 4 wherein translating the high
2 definition video image in the first data format to a high
3 definition video image in the second data format comprises:
4 translating the high definition video image in YcbCr
5 format to a high definition video image in RGB format.

1 7. The method of claim 4 wherein packing the high
2 definition video image in a second data format packing mode
3 comprises:
4 packing the high definition video image in RGB12 format.

1 8. The method of claim 4 wherein translating the high
2 definition video image in YcbCr format to a high definition
3 video image in RGB format comprises:
4 using SMPTE 274M or ITU-BT Rec.709 or ITU-BT Rec.601 to
5 translate the high definition video image from YcbCr format to
6 a high definition video image in RGB format.

1 9. An apparatus recording high-density video images in
2 real time comprising:
3 means for compiling a high definition video image in a
4 first data format;
5 means for translating the high definition video image in
6 the first data format to a high definition video image in a
7 second data format;
8 means for filtering the second format high definition
9 video image to eliminate translation artifacts;

- 10 means for correcting the second format high definition
11 video image;
12 means for packing the second format high definition video
13 image in a second data format packing mode
14 means for writing the packed high definition video image
15 as a stripped data file;
16 means for reading the stripped data file and compiling the
17 high definition video image in the second data format; and
18 means for providing the high definition video image in the
19 second data format to a network.

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